

Chief, Occupational Health Laboratory

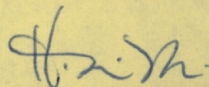
C455-10-13

H. N. MacFarland

January 5th, 1954.

Arsenic in Yellowknife Waters

Enclosed herewith is Mr. J. L. Monkman's report on the analysis of Yellowknife waters for arsenic content, for your information.



H. N. MacFarland.

HNM/iw
Encl.



CANADA

DEPARTMENT

OF

MINES AND TECHNICAL SURVEYS

MINES BRANCH

QUOTE FILE

Division of
Mineral Dressing
and
Process Metallurgy

552 Booth Street,
Ottawa, Ontario.
December 31, 1953.

Dr. J. L. Monkman,
Occupational Health Division
200 Kent Street,
Ottawa, Ontario.

Dear Sirs:

Enclosed is our report of analysis for
Arsenic made on the snow samples received here about
ten days ago.

Results on the Arsenic content of the
grass samples will be forwarded early in the New
Year.

Yours very truly,

J. A. Fournier,
Chief Chemist,
for R. J. Traill,
Chief of Division.

Enclos.

Mines Branch

CANADA
DEPARTMENT
OFDivision of
Mineral Dressing
and
Process Metallurgy

MINES and TECHNICAL SURVEYS

Chemical
Laboratory

OTTAWA ... December 30, 1953.

Sample..... Snow from Yellowknife AreaReceived from Dr. J. L. Monkman,
Occupational Health Division
200 Kent Street, Ottawa, Ontario.

Sg. ft. of snow collected	Lab. No.	Sample No.	As "As"		Total volume of sample - cc.	Total mgms As in sample
			Mgms As/sq. ft. of snow	Product Arsenic p.p.m.		
1	5531	# 26	0.22	0.08	2800	0.22
1	5532	# 28	0.89	0.33	2700	0.89
3	5533	# 29	0.01	0.01	3100	0.03 0.031
3	5534	# 30	0.28	0.32	2600	0.83
2	5535	# 32	0.021	0.01	4300	0.043
3	5536	# 33	0.16	0.19	2600	0.49
2	5537	# 36	0.11	0.08	2800	0.22
2	5538	# 37	0.042	0.02	4200	0.084
1	5539	# 38	0.10	0.04	2500	0.10
2	5540	# 39	0.041	0.02	4100	0.082
1	5541	# 40	0.078	0.03	2600	0.078
3	5542	# 44	0.04	0.02	6000	0.12
$\frac{400}{144} = 2.78$	5543	# 45	0.19	0.25	2200	0.55
1	5544	# 46	0.15	0.06	2500	0.15
1	5545	# 47	0.11	0.04	2800	0.11
1	5546	# 48	0.12	0.05	2400	0.12
1	5547	# 49	0.07	0.02	3500	0.07

Signed J. A. Dumas
Chief Chemist

Bureau of Mines
Division of
Mineral Dressing
and
Process Metallurgy

CANADA
DEPARTMENT
OF
MINES AND RESOURCES
MINES, FORESTS AND SCIENTIFIC
SERVICES BRANCH

Chemical
Laboratory

SHEET No. 2.

OTTAWA..December 30, 1953.....

SampleSNOW FROM YELLOWKNIFE AREA.....

Received from.....Dr. J. L. Monkman.....

Address.....Occupational Health Division.....

.....200 Kent Street, Ottawa, Ontario.....

Sq. ft. of
snow
collected

Lab. No.

Sample No.

mgms As per
sq. ft. of snow

as "As"
Product
Arsenic p.p.m.

Total vol of
sample
ml

Total mgms
As in sample

2 5548

52

0.01

0.01

3000

0.03

3 5549

93

0.20

0.32

1900

0.61

5550

95 Distilled H₂O.

0.01

1500

0.015

Signed

J. A. Jamieson
Chief Chemist.